





PROPERTIES OF ENG.MATERIALS LAB.

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Question 1

Not yet
answered

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2.00

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question

Rockwell test utilizes _____ as a measure of hardness.

- ☐ a. Load
- ☐ b. Diameter of indentation
- ☐ c. Time of loading
- ☒ d. Depth of indentation

[Clear my choice](#)

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Question 2

Not yet
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question

The method that you used to construct the phase diagram in the lab is:

- ☒ a. The thermal analysis technique
- ☐ b. The grain size calculation technique
- ☐ c. The casting technique
- ☐ d. The mechanical properties technique

[Clear my choice](#)

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Question 3

Not yet
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It is recommended to use silicon carbide wheels to cut:

- ☐ a. Ferrous alloys
- ☒ b. non-ferrous alloys
- ☐ c. Ceramic materials
- ☐ d. Sintered carbide materials

[Clear my choice](#)

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Question 4

Not yet
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The degree of segregation is determined by:

- ☐ a. Mechanical testing
- ☐ b. Macroetching
- ☒ c. Microetching
- ☐ d. Carburizing

[Clear my choice](#)

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Question 5

Not yet answered

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Defects are revealed, in the radiographic testing, through:

- ☐ a. Shadows on the radiograph
- ☐ b. waves that are introduced to the component under the test and the time which elapses between the transmission signal and the return of the reflected echo form the back wall of the component
- ☐ c. The indication of the transmitted pulses and reflected echoes, and the measurement of the time interval between them
- ☒ d. B and C

[Clear my choice](#)

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Question 6

Not yet
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The following tests are not used for micro-hardness testing:

☒ a. Brinell only

☐ b. Knoop only

☐ c. Vickers only

☐ d. B and C

[Clear my choice](#)

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Question 7

Not yet answered

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What is the disadvantage of the Knoop hardness test?

- ☐ a. Soft indenter
- ☒ b. Cannot use thin specimen
- ☐ c. High load required
- ☐ d. Elastic recovery

[Clear my choice](#)

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Question 8

Not yet
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question

When calculating the case depth for the carburized specimen, the formula in question 8 is used. This means that:

- ☐ a. the temperature is not a factor
- ☒ b. The temperature is implicitly included in D
- ☐ c. A part is included in t and another part is included in D
- ☐ d. The temperature is implicitly included in t

[Clear my choice](#)

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Question 9

Not yet
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question

The grain size number (ASTM method) can be determined by the following formula:

(N - grain size number is, n - the number of grains per square inch area and magnification 100x)

- ☐ a. $N=2^{(n-1)}$
- ☒ b. $N=1 + (\log n)/(\log 2)$
- ☐ c. $n-1=2^N$
- ☐ d. $n=2^N$

[Clear my choice](#)

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Question **10**

Not yet answered

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What is a limitation of the Rockwell test?

- ☐ a. Slow speed
- ☒ b. Bigger size of indentation
- ☐ c. Personal error
- ☐ d. Different indenters

[Clear my choice](#)

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Question 11

Not yet
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question

The grinding direction of successive steps should be:

- ☒ a. perpendicular to each other
- ☐ b. no matter whatever the direction
- ☐ c. Parallel to each other
- ☐ d. opposite to each other

[Clear my choice](#)

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Question 12

Not yet answered

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Flow lines of material after forging can be examined by

- ☐ a. Sulphur printing
- ☐ b. Cross section through a carburized bar with a case depth of 1mm
- ☐ c. Macro etching examination
- ☒ d. A and C

[Clear my choice](#)

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Question 13

Not yet answered

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Eddy current testing is the most widely used non-destructive testing technique:

- ☐ a. in the non-ferrous wrought metal industries
- ☐ b. the ferrous wrought metal industries
- ☐ c. for the detection of surface and near surface defects in products of uniform section such as bars, rods, tubes and wire
- ☒ d. a and c

[Clear my choice](#)

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Question **14**

Not yet
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2.00

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question

Which order is right for dye penetration inspection method?

- ☐ a. Penetrant apply, development, surface preparation, inspection
- ☒ b. Surface preparation, penetrant apply, development, inspection
- ☐ c. Penetrant apply, development, inspection, surface preparation
- ☐ d. Development, surface preparation, penetrant apply, inspection

[Clear my choice](#)

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Question **15**

Not yet
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question

The magnetic particle method of inspections is a procedure used to:

- ☐ a. determine the presence of defects near the surface of non ferromagnetic objects
- ☐ b. determine the presence of defects at or near the surface of ceramic objects
- ☐ c. determine the presence of defects at the surface of ferromagnetic objects only
- ☒ d. determine the presence of defects at or near the surface of ferromagnetic objects

[Clear my choice](#)

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Question 16

Not yet answered

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The heterogeneous grain structure results from:

- ☒ a. different solidification rates, crystal growth, gas evolvement, or thermal processing
- ☐ b. variations result from segregation due to impurities in the metal or from surface treatments such as carbonizing
- ☐ c. plastic deformation in forged or rolled parts. Such properties greatly affect structure and performance
- ☐ d. the ability to predict the performance of a materials in service

[Clear my choice](#)

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Question 17

Not yet answered

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In Sulphur printing, the paper will darken due to formation of:

- ☐ a. AgBr
- ☒ b. Ag₂S
- ☐ c. HBr
- ☐ d. MnSO₄

[Clear my choice](#)

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Question 18

Not yet
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question

Steels containing _____ carbon are used for carburizing.

- ☐ a. B and C
- ☐ b. 0.4-0.6%
- ☒ c. 0.1-0.2%
- ☐ d. 0.2-0.35%

[Clear my choice](#)

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Question 19

Not yet
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Prevention of carburizing of components can be done by

- ☐ a. Cold working
- ☐ b. Adding water
- ☒ c. Electroplating
- ☐ d. Adding filler

[Clear my choice](#)

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Question **20**

Not yet
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Removal of hard sample material is done by

- ☒ a. Abrasive cutoff wheel
- ☐ b. Manual hacksawing
- ☐ c. Piercing
- ☐ d. Oxy-fuel burning

[Clear my choice](#)

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